# SECTION 8 TECHNICAL SPECIFICATIONS

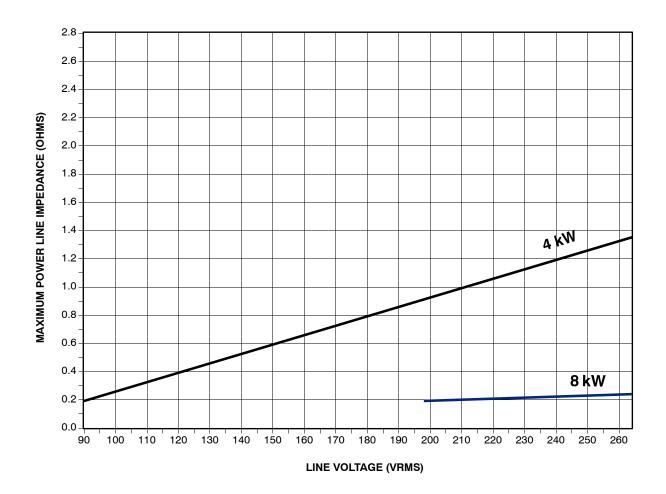
Note 🖃

Specified accuracy does not include test equipment accuracy.

Maximum Power kW	4.0	8.0		
kVp Range and Accuracy	40 to 125 kVp (in 1 kVp steps) ±(3% +1 kVp)			
kVp High Frequency Ripple	300 kHz			
mAs Range and Accuracy	0.1 - 250 mAs (in 25% steps according to R'10 series) ±(5% + 0.1 mAs)			
mA Stations and Accuracy	5, 6.4, 8, 10, 12.5, 16, 20, 25, 32, 40, 50, 64, 80, 100 ±(4% + 1 mA)			
Exposure Time Range and Accuracy	0.001 - 10 seconds (in 25% steps according to R'10 series) $\pm (2\% + 0.1 \text{ ms})$			
Output Power (@ 0,1s)	121 - 125 kVp @ 20 mA 111 - 120 kVp @ 25 mA 101 - 110 kVp @ 32 mA 100 kVp @ 40 mA 50 kVp @ 80 mA 40 kVp @ 100 mA	121 - 125 kVp @ 40 mA 111 - 120 kVp @ 50 mA 101 - 110 kVp @ 64 mA 100 kVp @ 80 mA 80 kVp @ 100 mA		
Input Power	6.6 kVA	12.5 kVA		
Radiation Output Accuracy (Reproducibility related to loading factors)	C.V. (Coefficient of variation) $\leq$ 0.05			
Maximum Specified Energy input in one hour	125 kVp @ 700 mAs			
Equivalent Current	The equivalent current in continuous mode of the maximum specified energy corresponds to 0.194 mA at a nominal voltage of 125 kVp			
Maximum leakage radiation	<0.88 mGy per hour or 100 mR per hour.			

Maximum Power kW	4.0	8.0		
X-ray Source Assembly:				
Anode Type	Stationary	Stationary		
Nominal X-Ray Tube Voltage	125 kV	125 kV		
Two Focal Spots	0.5 mm - 1.8 mm	0.6 mm - 2.8 mm		
Target Angle	16°	15°		
Anode Heat Content	35500 J (47215 HU)	28000 J (40000 HU)		
Nominal Radiographic Anode Input Power (0.1 s per minute)	5.3 kW (Large Focus) 1.1 kW (Small Focus)	8.0 kW (Large Focus) 0.6 kW (Small Focus)		
	formation about "Heating and Cooling Curves" endix AP0074 for 4 kW units or Appendix AP00			
Inherent Filtration:				
Added Filter	0.5 mm Al @ 75 kVp	0.5 mm Al @ 75 kVp		
X-Ray Tube Assembly	1.3 mm Al @ 75 kVp	1.3 mm Al @ 75 kVp		
Collimator Assembly	2.0 mm Al @ 75 kVp	2.0 mm Al @ 75 kVp		
Total Inherent Filtration	3.8 mm Al @ 75 kVp	3.8 mm Al @ 75 kVp		
	Single-Phase, 100 - 240 VAC, 50 / 60 Hz.	Single-Phase, 220 - 240 VAC, 50 / 60 Hz.		
Power Line Operation	Line voltage automatic compensation: ±10%			
·	Power line cable of the Portable Unit: 6 meters. Connection to standard outlets with GND that accomplishes local regulations.			
Maximum Power Line Impedance	Refer to Illu	stration 8-1		
	The General Circuit Breaker installed in the Portable Unit is 32 A (curve type C) with a 30 mA Sensitivity Differential.			
Minimum recommended Thermomagnetic / Circuit Breaker	The Power Line Installation should be provided with a 30 mA Sensitivity Differential and with a Thermomagnetic Interruptor / Circuit Breaker of at least:			
	≥30 A (curve type C) or ≥16 A (curve type D) for 100 - 120 VAC ≥16 A (curve type C) or ≥10 A (curve type D)	≥30 A (curve type C) or ≥16 A (curve type D) for 220 - 240 VAC		
	for 220 - 240 VAC			
	Momentary Line Current based on 100 ms X-ray exposure (RMS)			

Illustration 8-1
Maximum Power Line Impedance



Operation

# 8.1 ENVIRONMENTAL REQUIREMENTS

Note 🕼

STORAGE values only refer to equipment that is still in shipping containers. If the equipment is partially or completely installed, refer to IN USE values.

# 8.1.1 RELATIVE HUMIDITY AND TEMPERATURE

RELATIVE HUMIDITY (Non-Condensing)			TEMPERATURE				
IN USE STORAGE		IN USE		STORAGE			
MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
30%	75%	10%	100%	10° C (50° F)	40° C (104 °F)	-40° C (-40° F)	70°C (158° F)

#### 8.1.2 ATMOSPHERIC PRESSURE

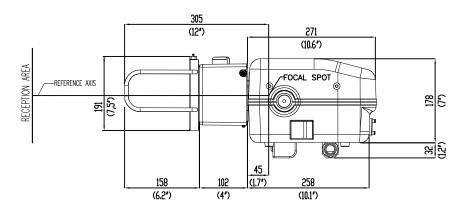
ATMOSPHERIC PRESSURE				
IN U	JSE	STORAGE		
MIN.	MAX.	MIN.	MAX.	
700 hPa	1060 hPa	500 hPa	1060 hPa	

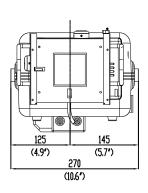
# 8.2 DIMENSIONS

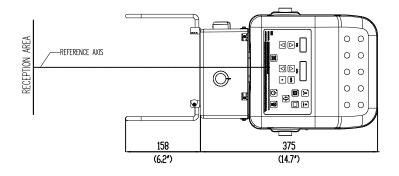
	Lawatt	Wid		
Length Dimensions		Standard Wheels	All-Terrain Wheels	Height
	1664 mm (max) (65.5") (max)	669 mm (26.3")	759 mm (29.8")	2228 mm (max) (87.7") (max)

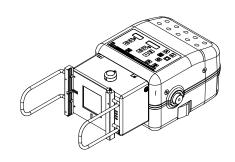
	Aluminium Column		Steel Column		
	Minimum Weight	Maximum Weight	Minimum Weight	Maximum Weight	
Weight	50 kg (110 lbs)	59 kg (130 lbs)	56 kg (123 lbs)	65 kg (143 lbs)	
	Note: Weight varies depending on the options added to the Unit				

Illustration 8-2 Dimensions (X-Ray Unit)



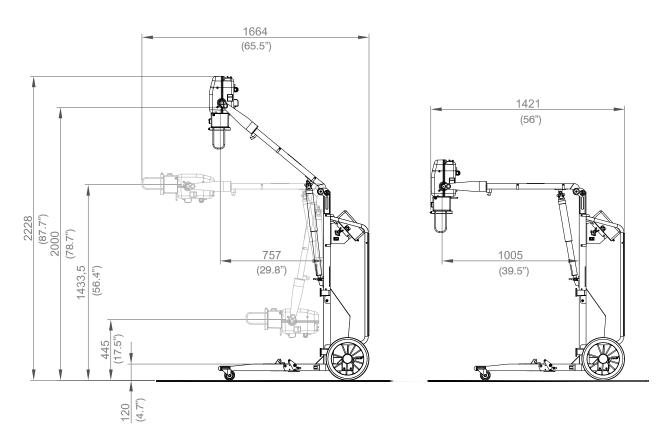






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Illustration 8-3 Dimensions (Standard)



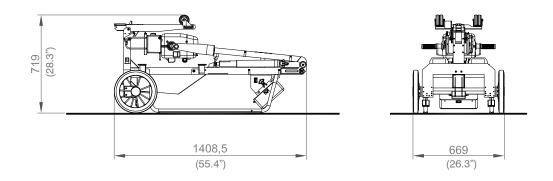
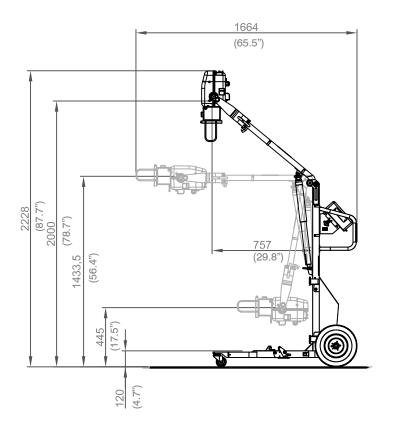
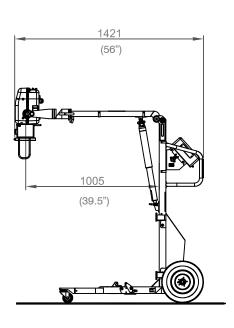
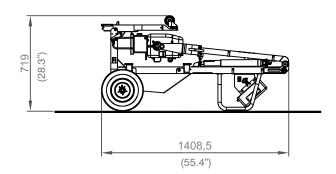
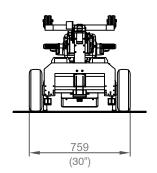


Illustration 8-4 Dimensions (All-Terrain Wheels)





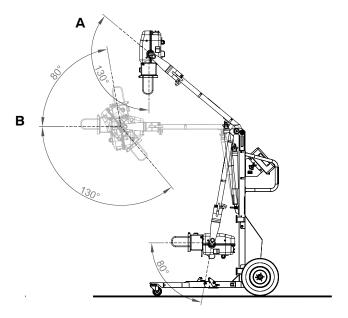




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Operation

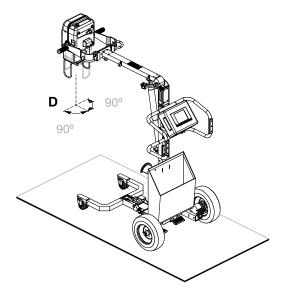
# Illustration 8-5 Movements



C

A. Rotation of the X-Ray Unit with reference to its Support B. Vertical Movement of the Arm to adjust Vertical SID

C. Rotation of the X-Ray Unit Support



D. Rotation of the Collimator